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ABSTRACT

There are provided a channel estimation unit for achieving highly accurate channel estimation, a CDMA receiver and a CDMA transceiver with the channel estimation unit. Channel estimates of data symbols are obtained from pilot symbols in a combined symbol sequence which has a plurality of slots and includes the data symbols and the pilot symbols. First, the pilot symbols in the combined symbol sequence are located. Second, pilot blocks are generated by extracting the pilot symbols from two or more slots in the combined symbol sequence. Third, channel estimates of the data symbols are obtained by calculating a weighted sum of averages of the pilot symbols in the individual pilot blocks. The weighted sum is carried out using appropriate weighting factors for individual data symbols in each slot. This enables highly accurate channel estimation.